

SST RANGE™ 

watchgas[®]
detection 



SST1

The *new* standard
in gas detection

Now with IOELV

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v1.4K2E



At WatchGas, we watch gas where you can't. Founded in 2018 in Rotterdam, the Netherlands, we design and manufacture gas detection devices that help people work safely in industries around the world. Our mission is clear: build reliable products, share our knowledge of gas detection, and always keep customers at the center of what we do.

From the start, our focus has been on developing practical solutions that address real challenges in the field. Our Product Development team in Rotterdam brings together experience and technical expertise to design devices that are robust, accurate, and simple to use. Each year, we expand our product range, whether through new product introductions or updates that support emerging applications such as hydrogen or fumigation.

Growth through design is central to how we work. By listening closely to customers and partners, we ensure our portfolio evolves with their needs. This approach has led to the development of the SST Range™, including the SST1, SST4 Micro, Mini and Pump, which respond directly to the five key requirements we heard from the market: fast detection, clear displays, durable construction, strong alarms, and a reliable ecosystem of software and docking stations.

Today, WatchGas products are used globally across industries where safety cannot be compromised. Our role is simple but essential: we watch gas, so you and your team can return home safely every day.

Sincerely,

WatchGas Team

SST1 Serviceable

The SST1 Serviceable offers one of the most cost-effective solutions on the market. With its 3-year replaceable battery and solid polymer sensor technology the SST1 offers a compact and modular design, while not compromising on its ruggedness.

SST1 24 & 36

The SST1 single gas detector provides up to three years of maintenance-free operation and is available in H₂S, SO₂, CO, or O₂ (2-year only) models. Its simple design makes it perfect for users looking for ultimate protection while being easy to use, durable, and cost-effective.



SST1 - Serviceable

CO	SST1-M
H ₂ S	SST1-H
O ₂	SST1-O
SO ₂	SST1-S
NH ₃	SST1-A
PH ₃	SST1-P
H ₂	SST1-H2
High H ₂	SST1-H2HR
CH ₄ S	SST1-MM



SST1 - 2 Year fixed life

CO	SST1-M-24
H ₂ S	SST1-H-24
O ₂	SST1-O-24
SO ₂	SST1-S-24



SST1 - 3 Year fixed life

CO	SST1-M-36
H ₂ S	SST1-H-36
SO ₂	SST1-S-36

SST1 Serviceable

83 x 49 x 20 mm
(3.3 x 1.9 x 0.8 in.)
88g (3.1 oz.)



SST1 - Serviceable

The SST1 Serviceable is designed for users who need more control and flexibility from their gas detector. With replaceable sensors and batteries, it delivers a sustainable solution that adapts to changing needs. This makes it ideal for long-term projects, specialized gases, or environments where servicing and extending the detector's life are key advantages.



NFC – allows for configuration, downloading of data, and assignment of devices;



Runtime – longer runtimes: 2 or 3 years depending on the version, SST1 fixed life lasts for the set term;



Strong vibration motor – goes through heavy clothing like thick winter coats;



IOELV – long term gas exposure data, available in SST1 serviceable and 2 year;



Extreme temperature range – from the cold in Alberta Canada to the heats of the middle east. -40 to 60 °C operation;



Configurable – depending on customers' requirements the device can be tailored;



One button operation – simple user interface and easy to use with a gloved hand;



Response time – fastest T90 response time in its category.

SST1-24/36 *(maintenance free)*

The SST1 Fixed Life models offer straightforward safety with no servicing required. Available in 24- or 36-month versions, these detectors provide reliable protection from day one until end of life. Rugged, simple to use, and easy to manage across fleets, they are the perfect fit for organizations looking for predictable, low-maintenance gas detection.



Compact design – allows for better wearability and less weight;



Screen bumpers – protects screen from scratching due to smaller sensor profile;



Rugged – double shot moulding, IP65/68, and toughened housing;



Screen – larger screen than the next best alternative and backlight gives clear viewing;



SST1 Serviceable features:

More sensor options – with options for NH_3 , PH_3 , H_2 , High H_2 , and CH_4S ;



Replacable battery and sensor – allowing for more sustainability and lower 5 year costs;



STEL and TWA – for sampling in gas enriched environments such as ducts and pipes.



SST1 24/36

83 x 49 x 20 mm
(3.3 x 1.9 x 0.8 in.)
88g (3.1 oz.)



SST1 now with IOELV

(long term gas exposure data)

Worker exposure monitoring reinvented with IOELV

Accurate monitoring of worker exposure to hazardous gases is no longer a manual, error-prone process. With the WatchGas SST1 single-gas detector, exposure levels are continuously tracked against Indicative Occupational Exposure Limit Values (IOELVs), providing visibility into long-term, low-level risks that traditional alarms cannot capture.

With IOELVs, you benefit from:

- **Automatic recording** of ppm-hours and daily peak values for full exposure visibility
- **Proactive risk management** through continuous tracking against safe thresholds
- **Data-driven decision making** with detailed logs accessible via the WatchGas App
- **NFC-enabled logging** for simple, fast, and reliable compliance reporting
- **Seamless integration** with Device Link and Compliance Watch RTR platforms

Why choose the SST1 with IOELV?

The SST1 transforms exposure monitoring into a smarter, safer, and more efficient process, by replacing paper-based logs with automated NFC data transfer and integrated reporting. Workers are better protected, managers gain powerful insights, and organisations achieve stronger compliance with less effort.

Solid Polymer Electrochemical Gas Sensor

A new standard in gas detection

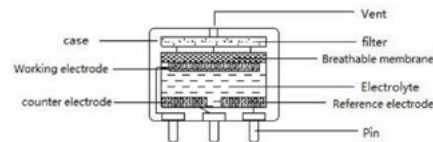
For over 40 years, most electrochemical gas sensors relied on liquid electrolytes. These can leak, dry out, or require larger housings to compensate for environmental conditions. At WatchGas, we've developed a solid polymer electrolyte (SPE) sensor, a dry-cell design that removes these limitations.

Why WatchGas SPE Sensors?

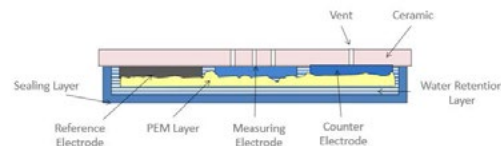
- **Leak-free design:** no liquid reservoir, no risk of drying out or leakage.
- **Compact & efficient:** smaller size, lower power consumption, and consistent performance.
- **Durable:** works in both humid and dry conditions, where liquid-based sensors often fail.
- **Cost-effective quality:** advanced automated production ensures high volumes at stable quality and price.
- **Proven versatility:** ideal for both portable and stationary applications, detecting gases like CO, NH₃, NO₂, SO₂, O₂, H₂S, and more.

Revolutionary Benefits

With Solid Polymer Electrochemical Technology, WatchGas redefines what's possible in gas detection. Our sensors combine high selectivity, energy efficiency, and flexible design to meet today's toughest safety demands.



The old Liquid Electrochemical Gas Sensor



SPE (Solid Polymer Electrochemical) Gas Sensor

SST range features

Every SST device includes a set of core features that simplify compliance, improve traceability, and extend device lifetime. These functions are standard across the range, ensuring consistency and reliability no matter which model you choose.



Scan protect

Allows the user to set a password so the unit cannot be scanned by unauthorized device link;



Bump and calibration

Reminders can be set, and this can be easily done through the WatchGas App or through the SST Dock or SST Kiosk. After bumping and calibration with the dock or app, certificates are stored in the WatchGas Application for easy sharing and site auditing;



Tap compliance

Allows the user to confirm unit functionality and transfer any events and health data in to the WatchGas Compliance Watch Software;



Compliance indicator

A led that will show the status of the device. Green light indicates good health of the device and no actions required;



Event logs

Are captured in the device and up to 100 events are stored at a device level. Any time the device is docked into the SST Dock or Kiosk the information is downloaded;



Peak alarm storage

For review later or if needed in an incident report;



95db alarm

For a clear warning signal in every environment;



TWA and STEL

Can be set in the SST1 serviceable devices and all SST4's, and this can be reset with a 10 second button press. This is ideal for shift changes;



Hibernation mode

Is easy and can be done via the WatchGas Application or via the SST Dock or SST Kiosk. This allows for longer use of the device and saves battery life for later use;



Maintenance overview

Can be viewed via the WatchGas Application or via the Compliance Watch Software and shows the health of your fleet allowing for a proactive service schedule;



Assign and unassign users

Fast and easily with the WatchGas Application or via the SST Kiosk. This allows for full fleet traceability, ideal for shutdowns or rental fleets;



One button operation

Simple user interface and easy to use with a gloved hand;



Easy configuration via WatchGas application

No need for wires or setting up PC, now it is easily done via NFC and phone, kiosk or docking station;

SST RANGE™



SST1

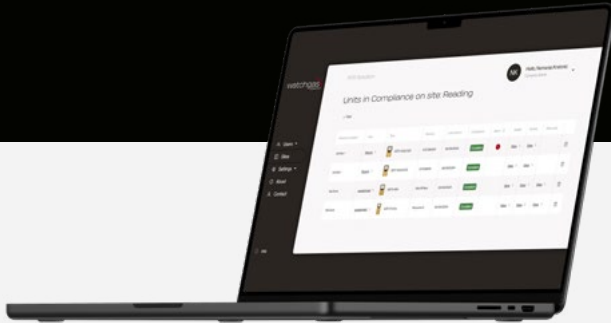
SST4 Mini

SST4 Micro

SST4 Pump

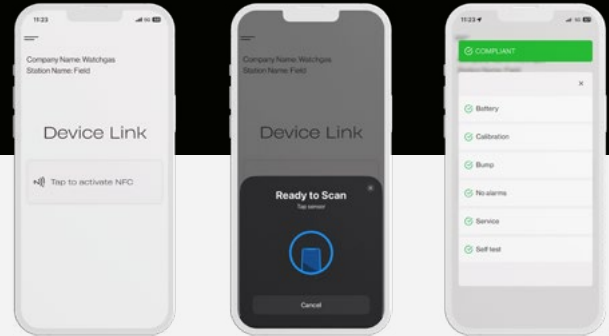


SST Ecosystem



WatchGas SST RTR Web Reporting Software

The WatchGas RTR Software simplifies fleet management by turning complex data into actionable insights. Gain instant visibility on compliance, fleet health, and user traceability across multiple sites. With proactive monitoring, smart reporting, and alert notifications, RTR reduces downtime and costs while improving safety. Combined with the SST Dock and SST Kiosk, it ensures seamless integration for maintenance, compliance, and optimized fleet management.



WatchGas SST Application

The WatchGas SST Application makes complex tasks simple and fast. With NFC, you can configure devices without PCs or cables, adjusting alarm set points, enabling features or updating remotely. The app delivers full fleet traceability through Tap Compliance and shows device health with an easy star rating, helping service centers and safety managers stay in control. Event logs can be downloaded on-site and shared instantly via SMS, email or WhatsApp, cutting out unnecessary trips. Fully compatible with the SST Range™, it removes the need for multiple software platforms for single- and multi-gas devices.



WatchGas SST Dock

SST Dock streamlines gas detector maintenance by allowing multiple devices and cylinders to be tested and calibrated in one go: saving time, cutting costs, and boosting productivity. It automatically logs test results, calibration history, gas levels, and expiration dates, making compliance effortless. With remote monitoring, maintenance scheduling, and reporting built in, managing your fleet has never been easier. Standardized, automated calibration ensures reliable, error-free results every time. Investing in SST Dock reinforces your commitment to safety and builds a stronger, more proactive safety culture.



WatchGas SST Compliance Kiosk

The WatchGas Compliance Kiosk gives you instant insight into gas detector status, syncing seamlessly with SST RTR Web Reporting Software for complete fleet oversight. It verifies settings, monitors device health, and reduces downtime with preventive maintenance alerts. With built-in Wi-Fi or cellular connectivity, it makes data sharing effortless, whether to a laptop, phone, or printer. Users get real-time prompts for required actions, and credentials are auto-loaded if missing. Event logs are downloaded automatically, giving safety managers quick access to critical data. Wall-mounted or desktop-ready, it's built for flexibility.

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